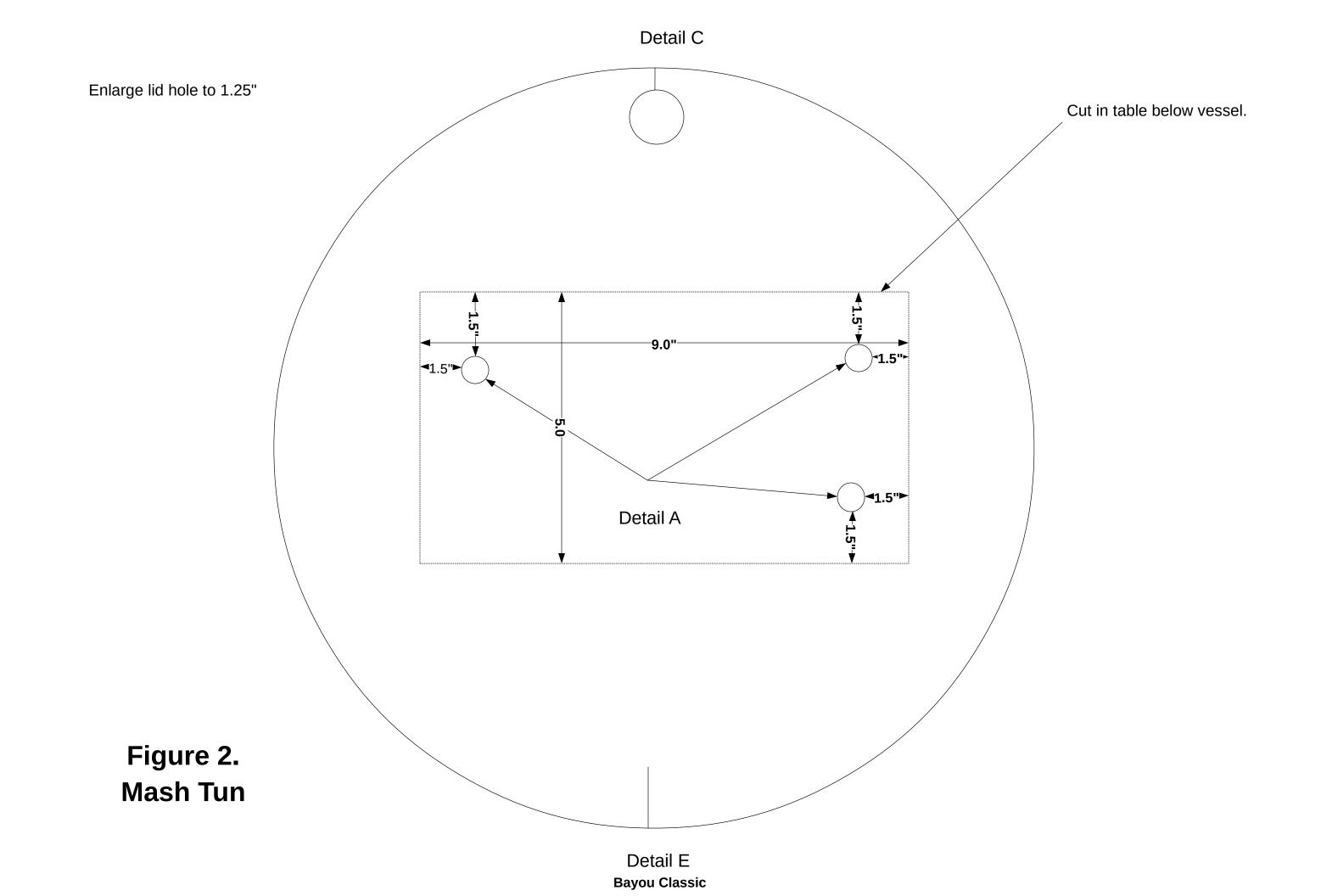


Figure 1. Boiler



Detail A: Penetration

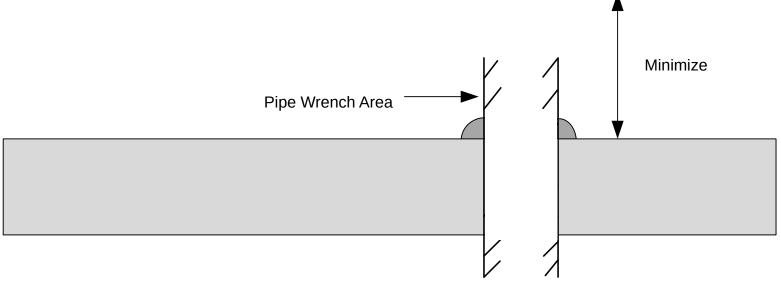


Figure 3

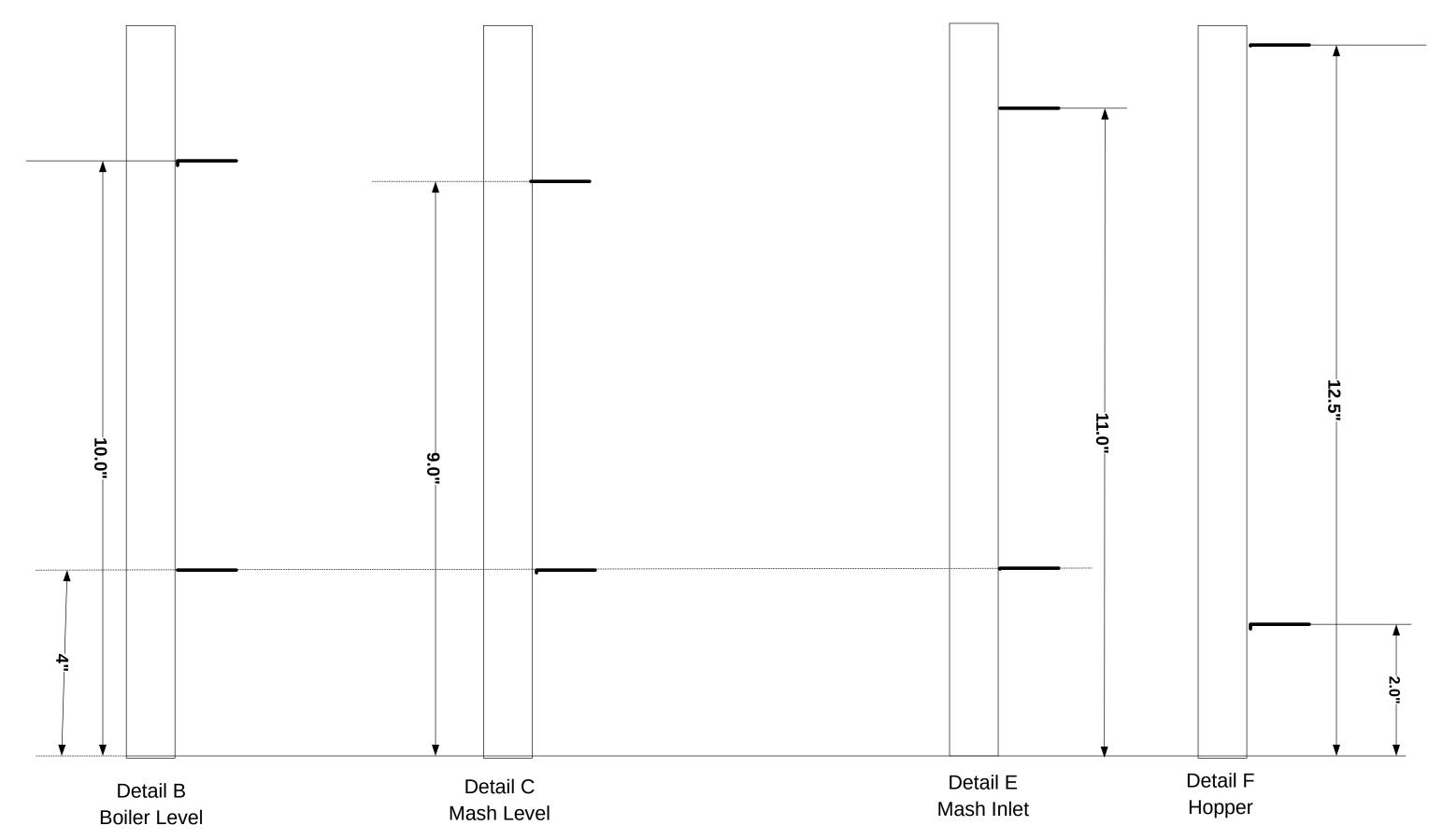
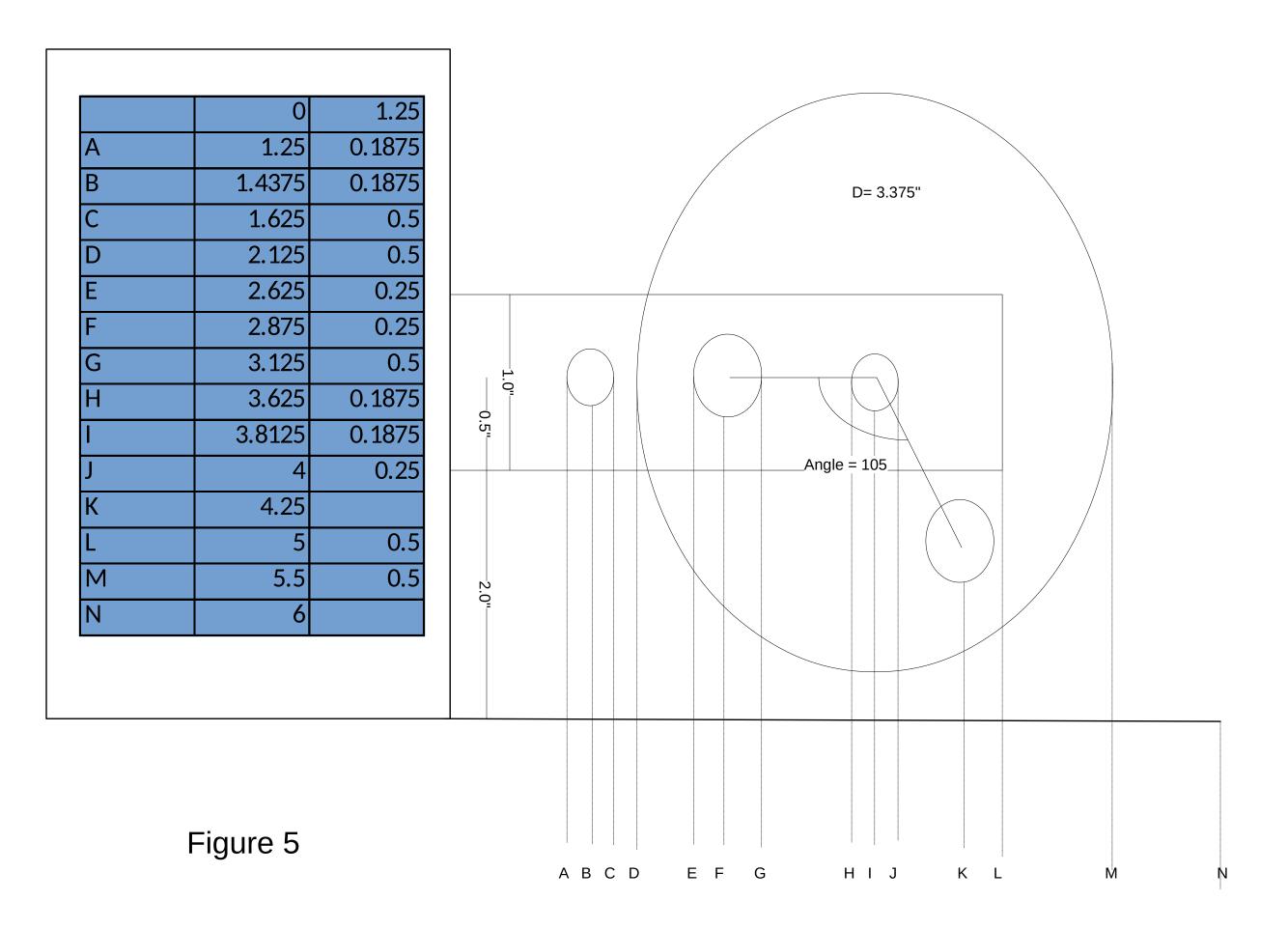
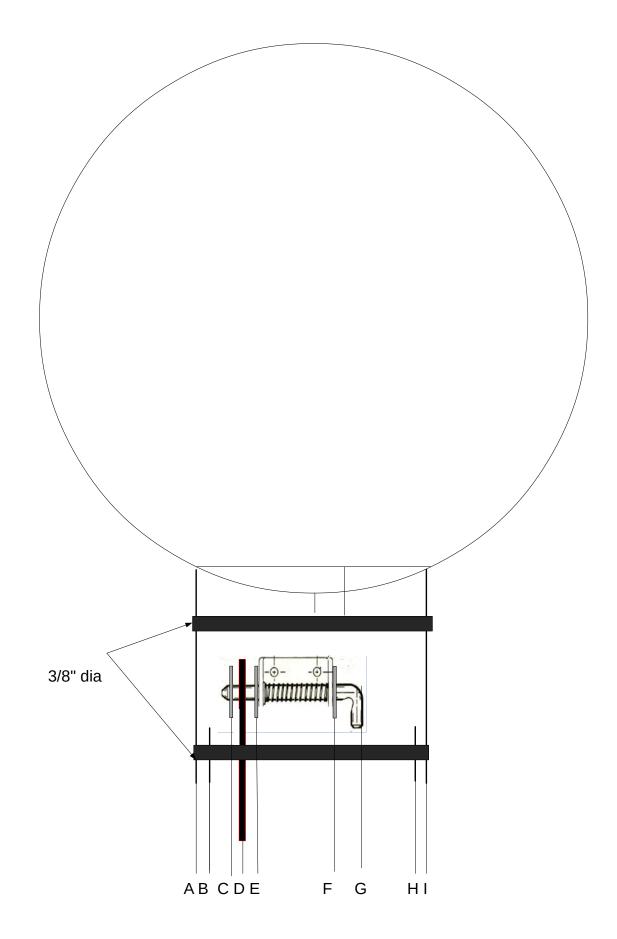


Figure 4





P = .375 E = 1.250 R1 = 1.187 R2 = 0.687 L = 2.0 W = 0.656 B = 1.12 T = 0.12 H1 = 0.375 H2 = 0.437 H3 = 1.125 D = 0.265

This piece was purchased.

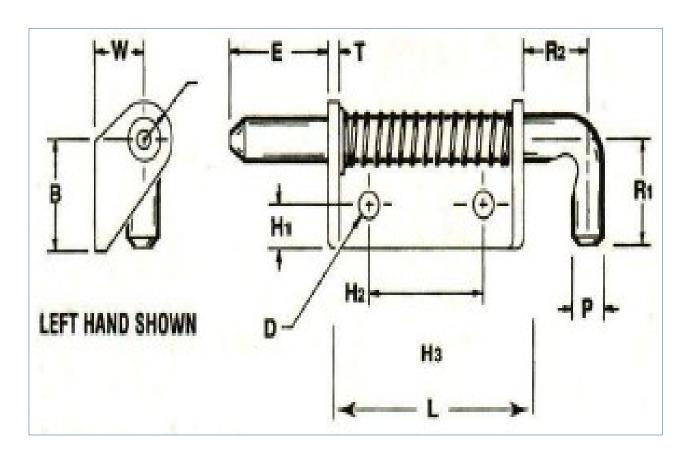
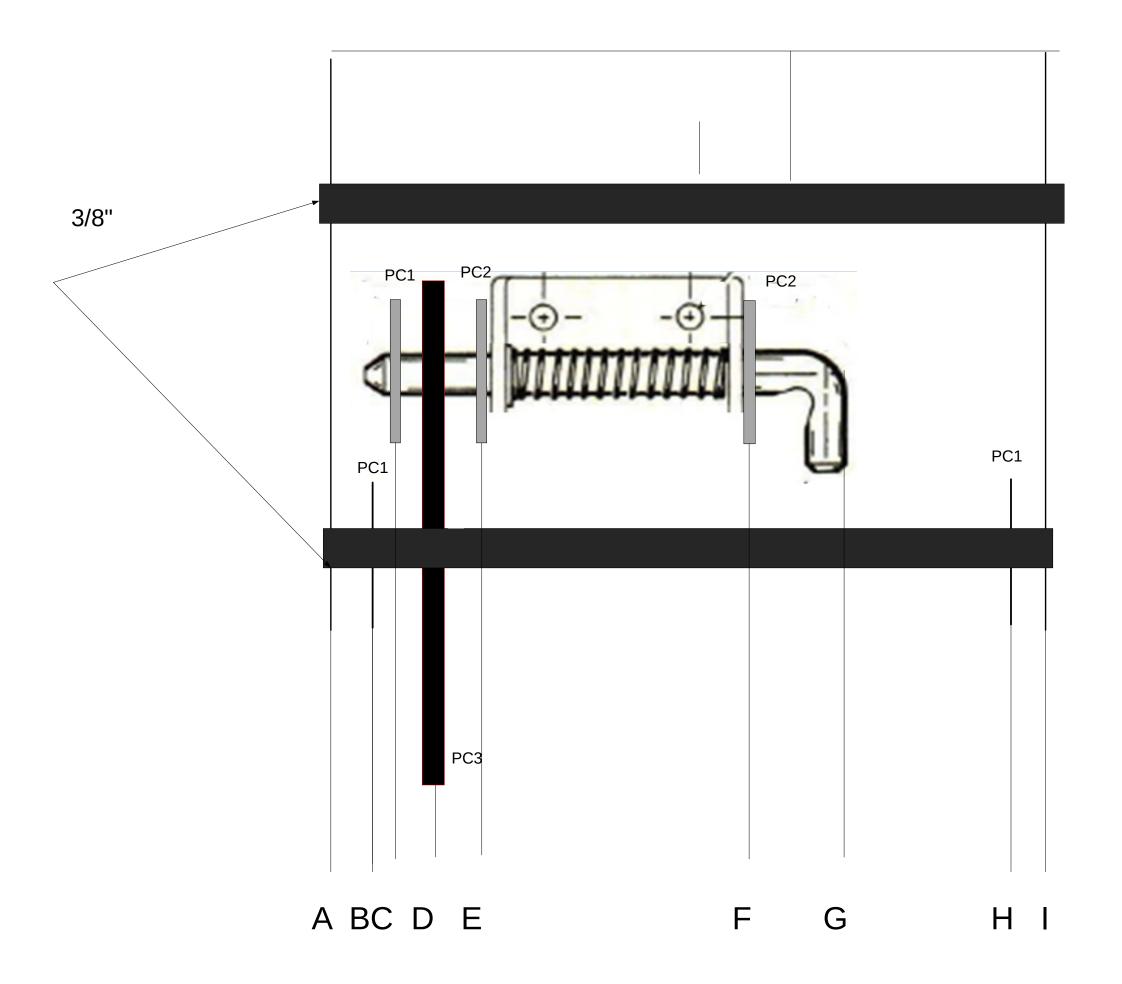
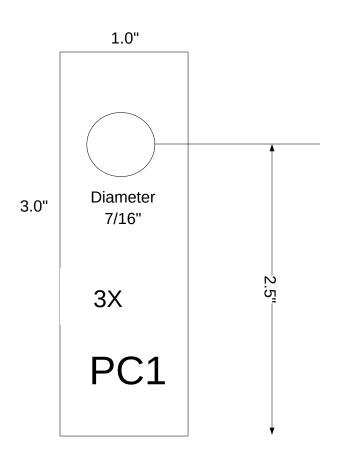


Figure 6



Α	0	0
В	0.5	0.5
С	0.25	0.75
D	0.4375	1.1875
E	0.4375	1.625
F	2.00	3.625
G	1	4.625
Н	0.875	5.5
I	0.5	6

Figure 6a

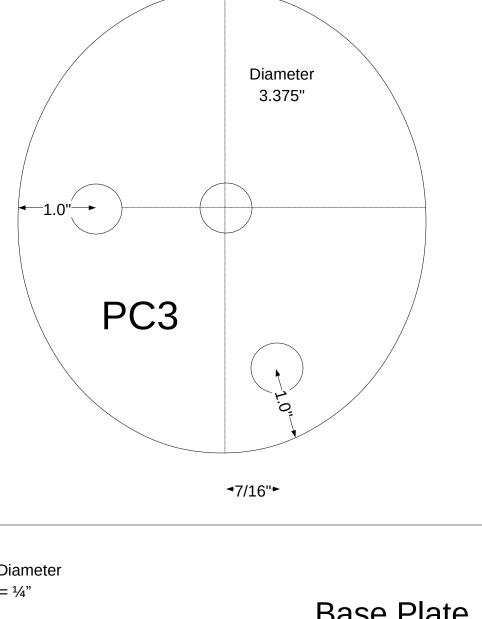


2X

PC2

1.0"





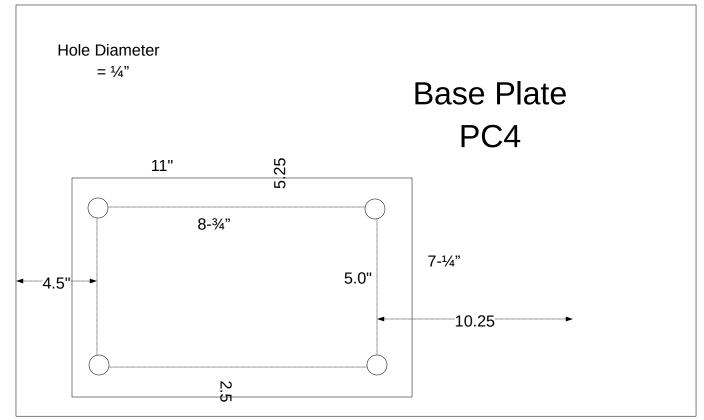
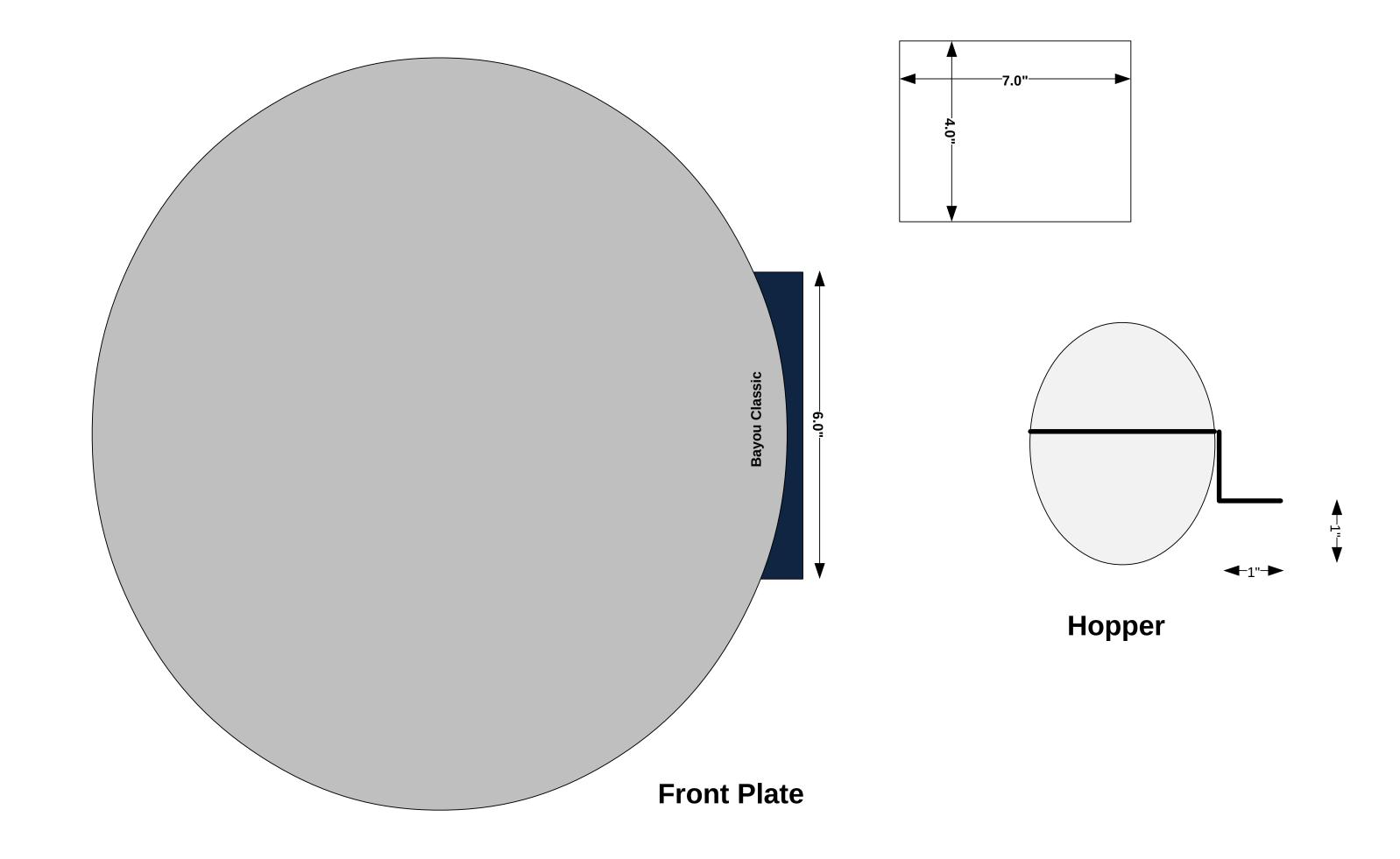
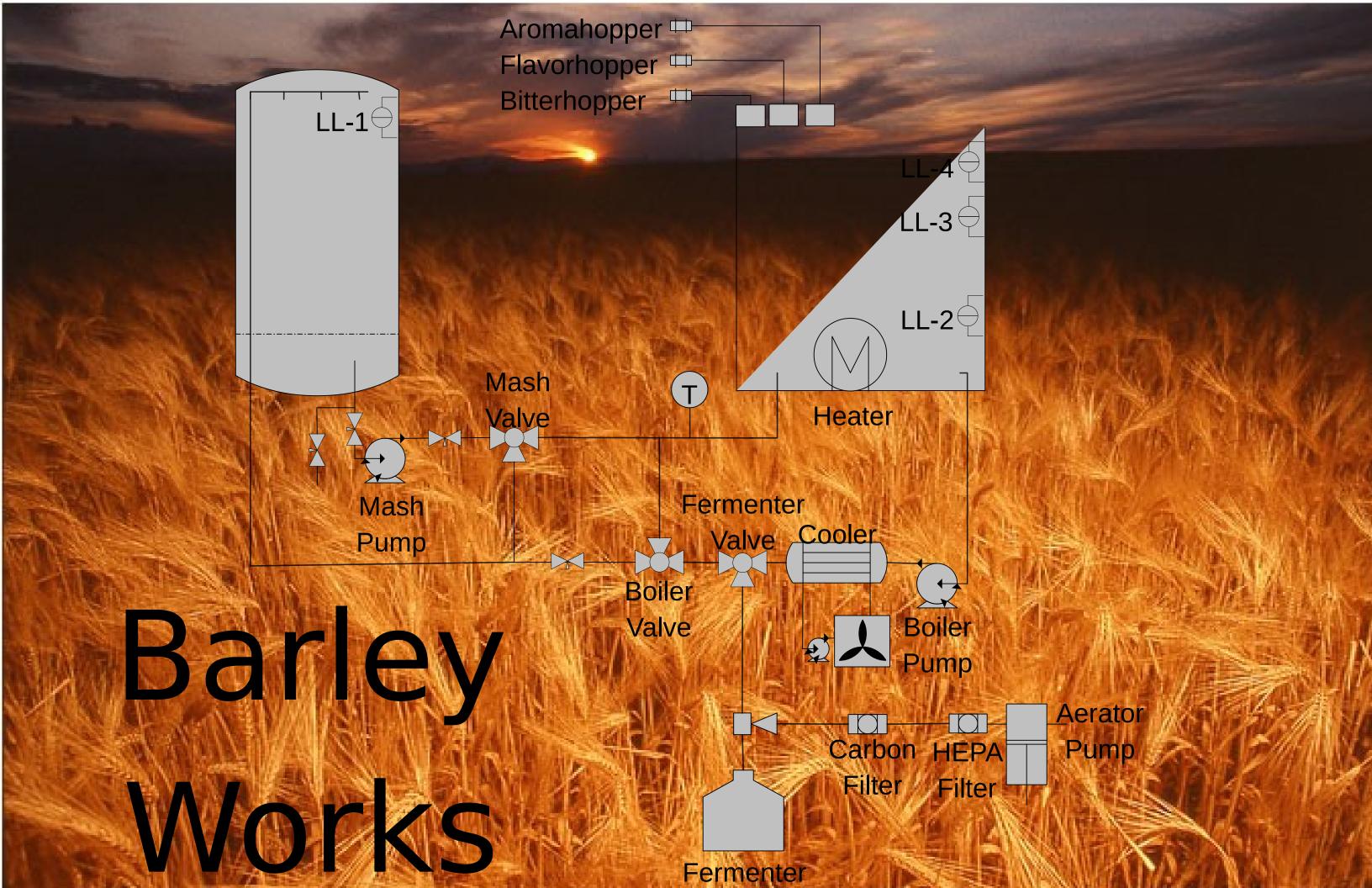
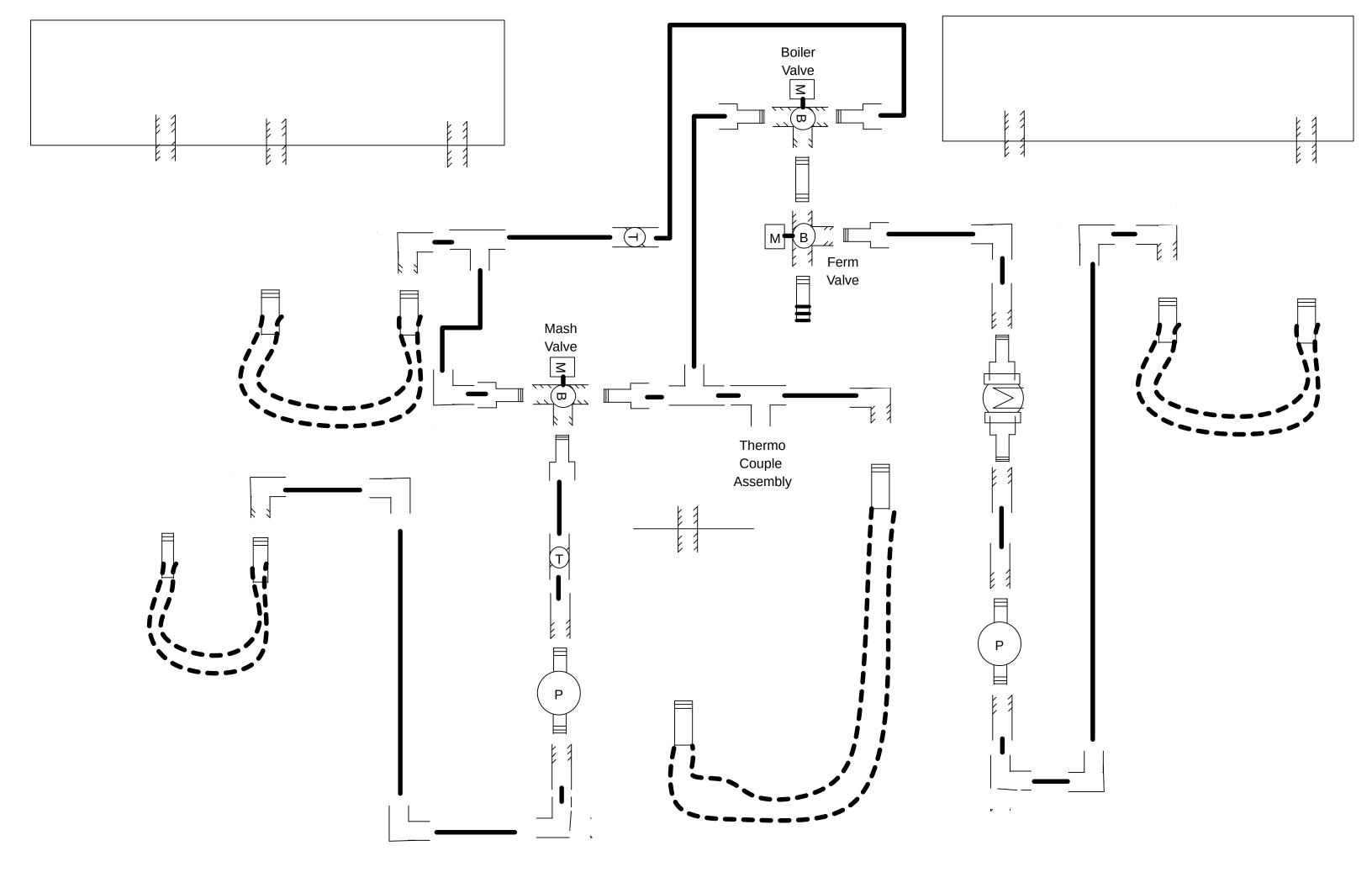
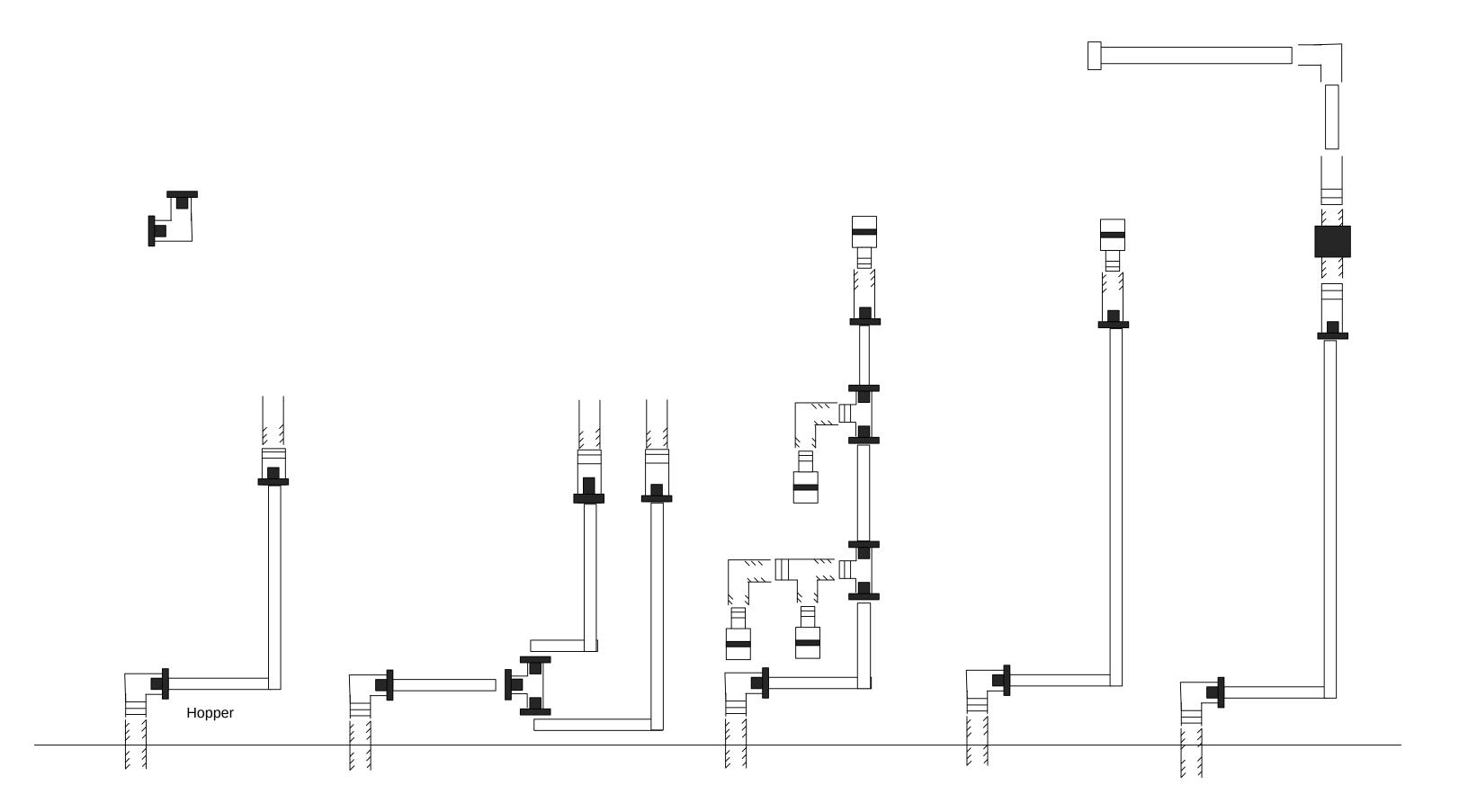


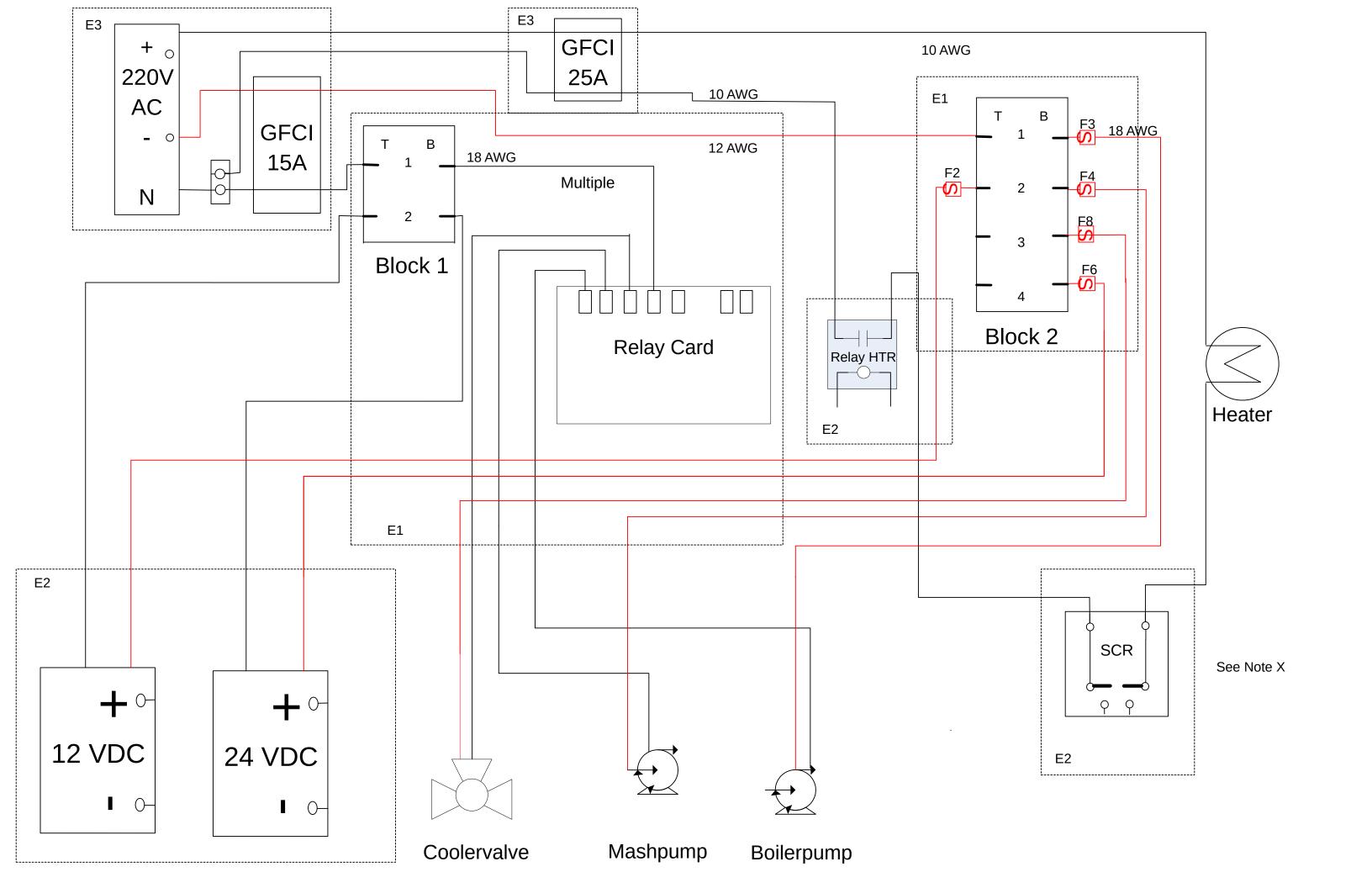
Figure 7

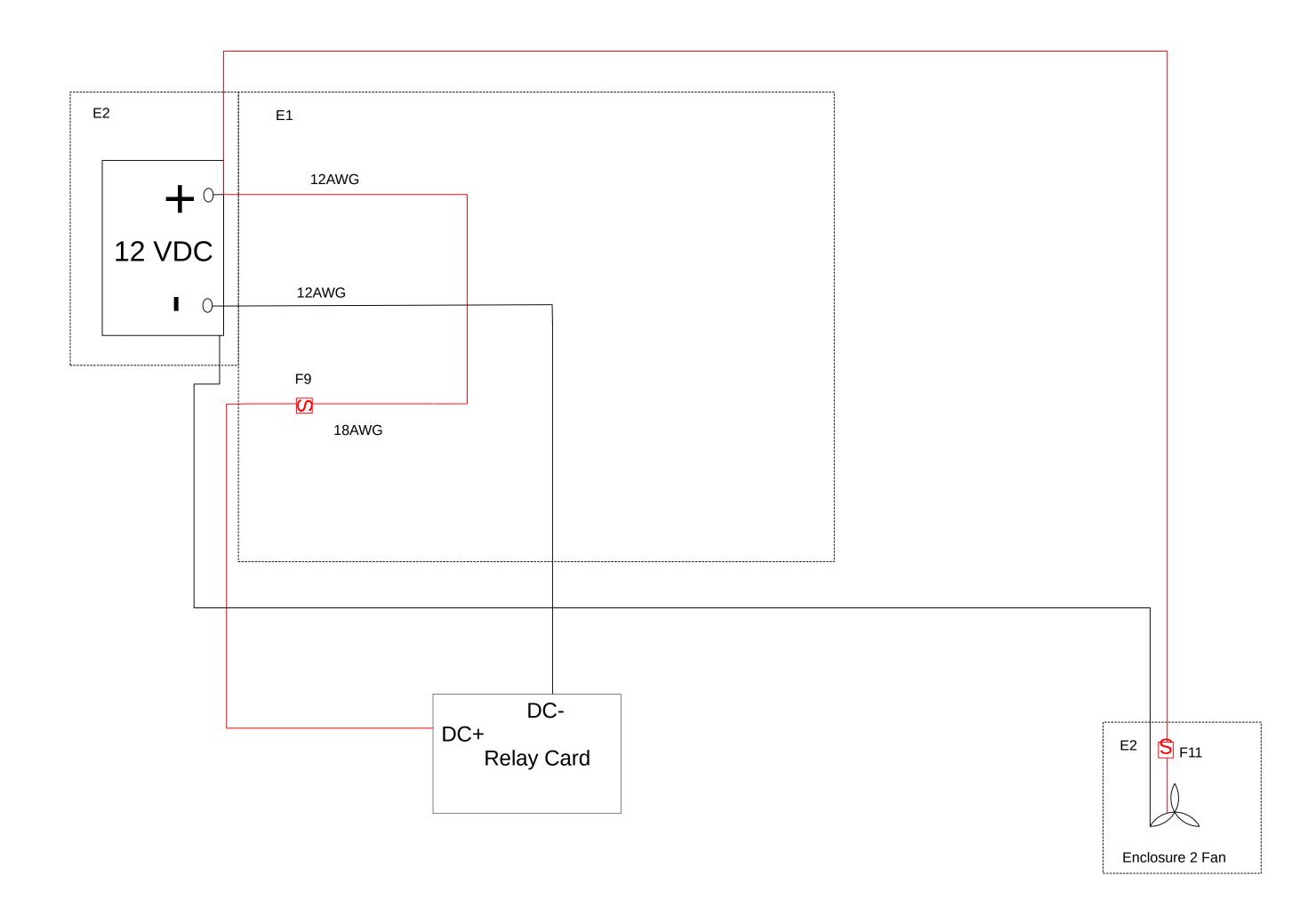


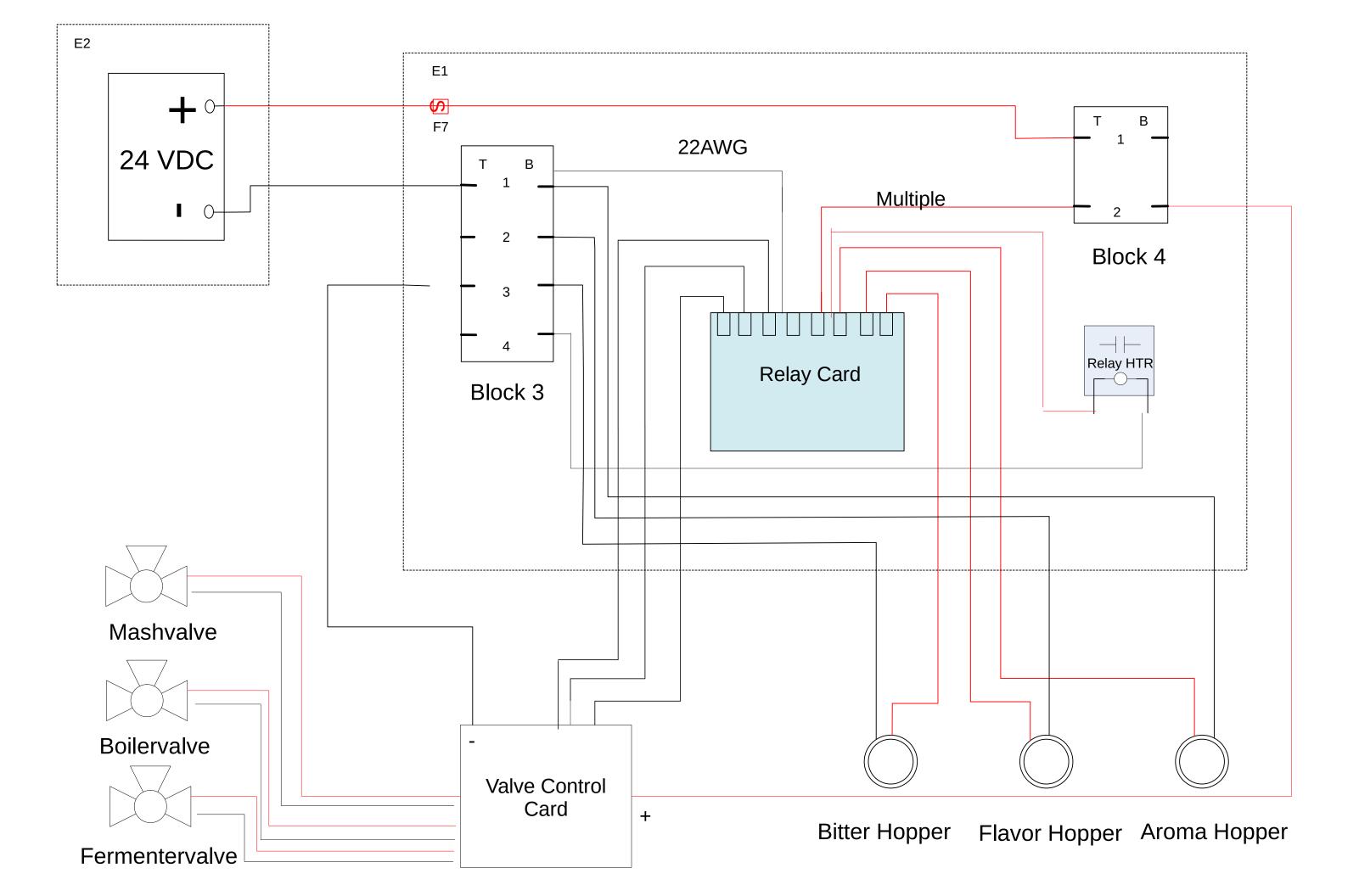


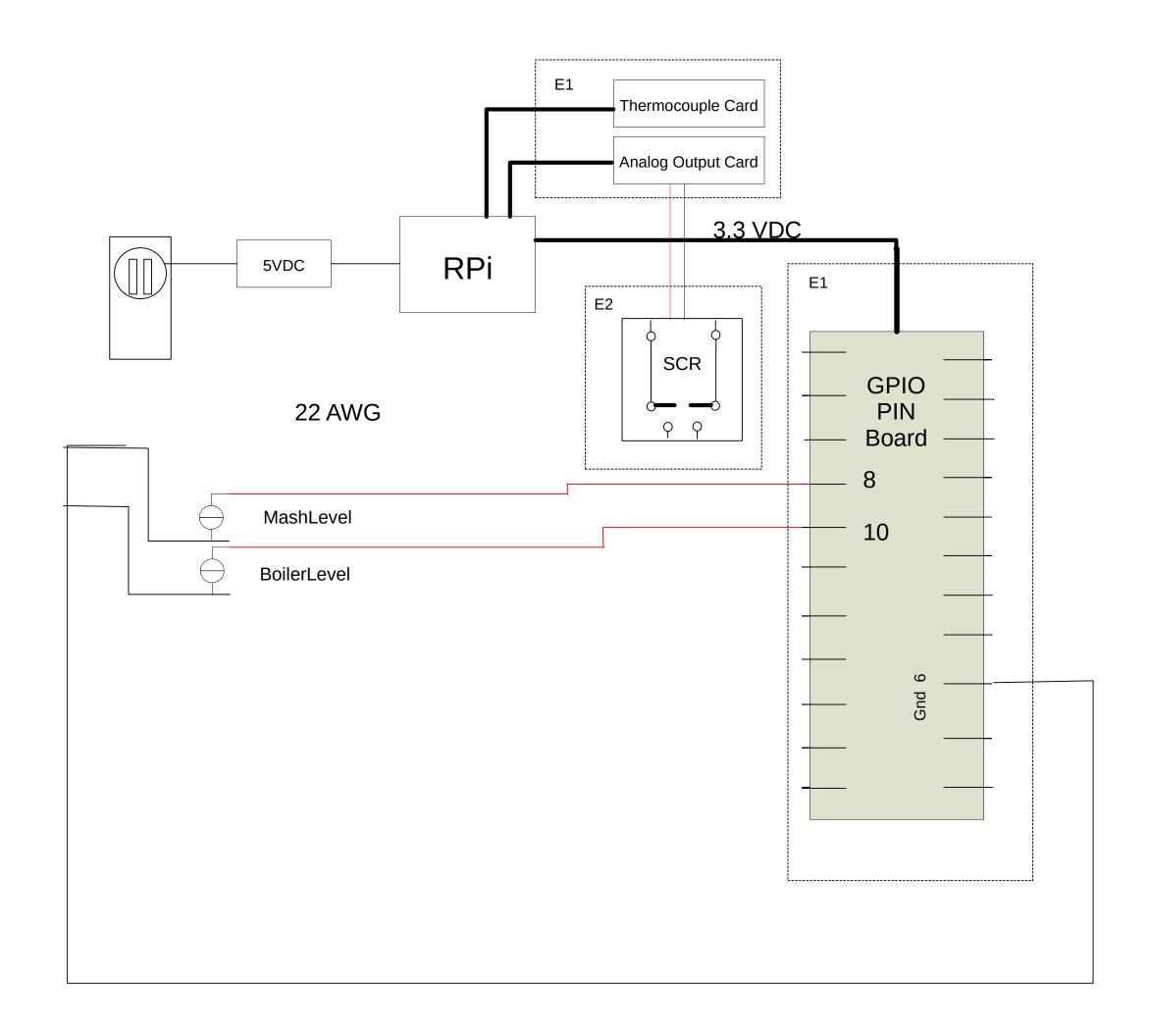


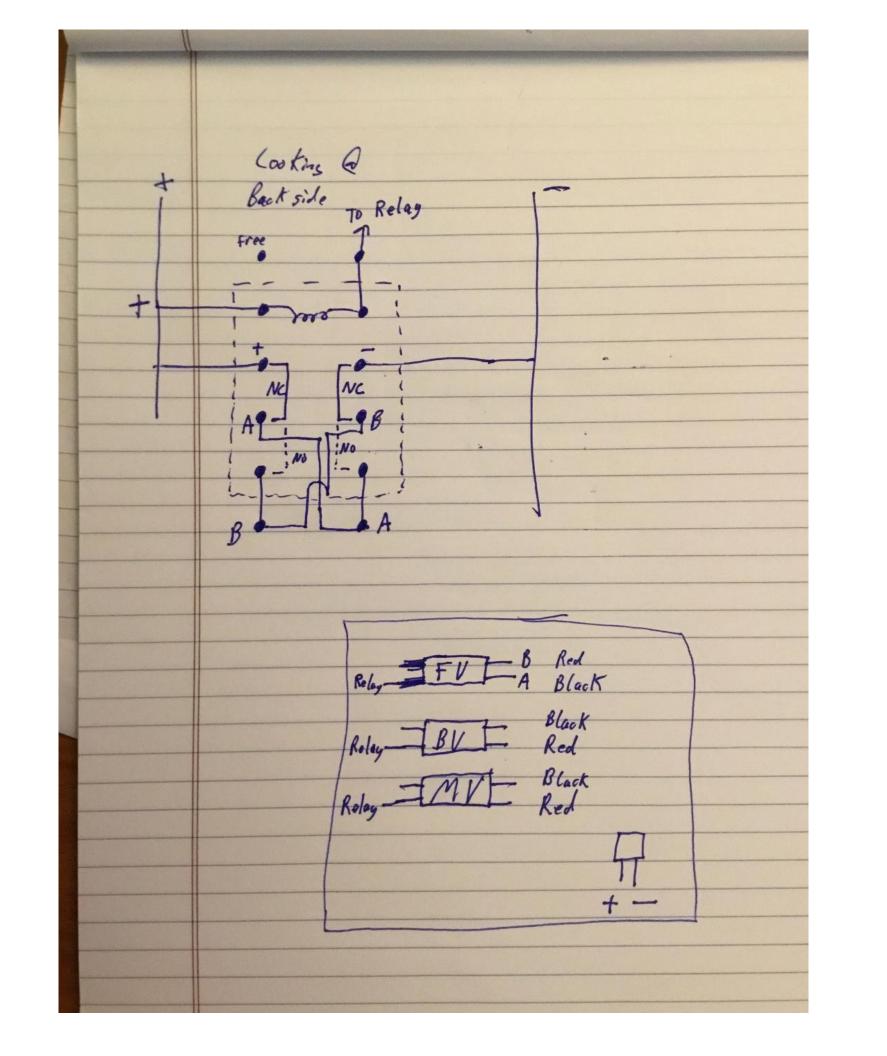








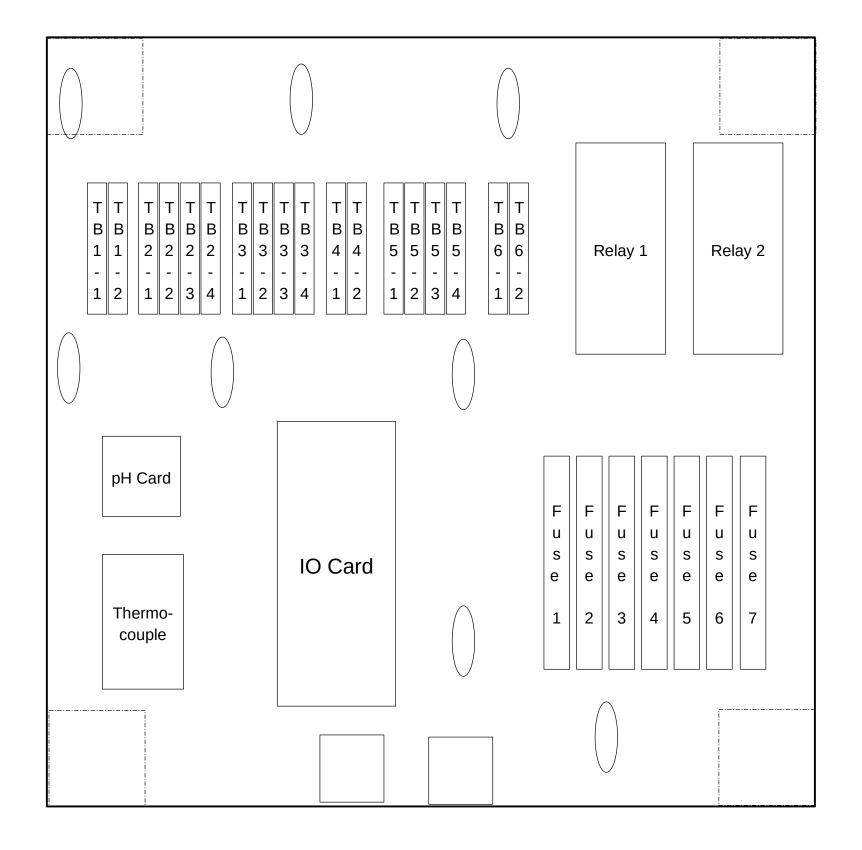




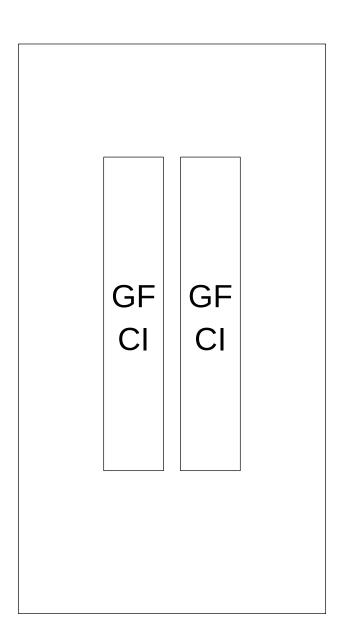
	Voltage	Compone nt	GPIO	RPI Pin	New Relay	Fuse	Fuse Size	Type
Mash Pump	120	0	1	28	1	F4	2	TD
Mash Valve	24	1	5	29	5	F7	2	Bus Fuse
Boiler Pump	120	2	26	37	2	F3	2	TD
Boiler Valve	24	3	20	38	6	F7	2	Bus Fuse
Ferm Valve	24	4	8	24	7	F7	2	Bus Fuse
Cooler Valve	24/120	5	7	26	4	F8		
Heater	120	6	22	15	3	СВ	25	СВ
Bitter Hopper	24	7	16	36	8	F7	2	Bus Fuse
Flavor Hopper	24	8	2	3	9	F7	2	Bus Fuse
Aroma Hopper	24	9	25	22	10	F7	2	Bus Fuse

A1	Black	Lower Enclosure	Upper Enclosure
A2	Black	Lower Enclosure	Upper Enclosure
A3	Red	Lower Enclosure	Top Panel
A4	Black	Upper Enclosure	Top Panel
A5	Green	Upper Enclosure	Top Panel
A6	Green	Upper Enclosure	Cooler Valve Area
A7	Red	Upper Enclosure	Top Panel
A8	Red	Fuse 1 Output	Cooler Valve Area
	Green	Mystery wire in Top Panel	
	Black	Mystery wire in Upper Enclosure	

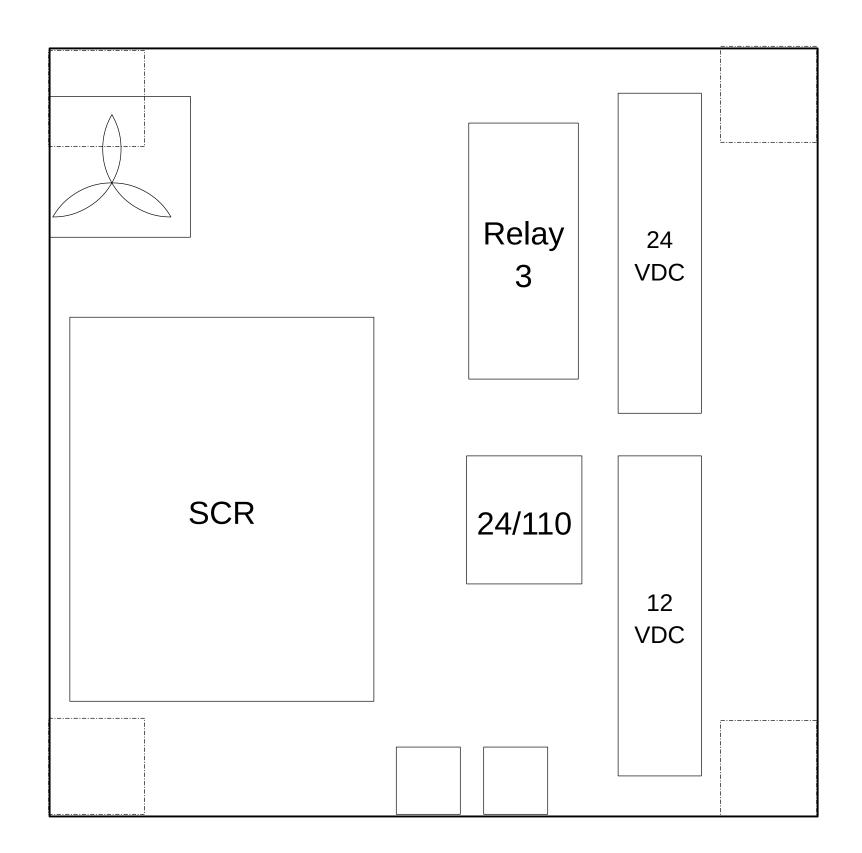
Mash Pump	15A GFCI	TB2	F4	MP	Relay 1 – NC	Relay 1 – Com	TB1	15A GFCI- N			
Mash Valve	24VD C+	F7	TB4	VCC	MVRela y	MV	MVRe lay	Relay 5 - NC	Relay 5 – Com	ТВ3	24VDC-
Boiler Pump	15A GFCI	TB2	F3	BP	Relay 2 – NC	Relay 2 – Com	TB1	15A GFCI- N			
Boiler Valve	24VD C+	F7	TB4	VCC	BVRelay	MV	MVRe lay	Relay 6 - NC	Relay 6 – Com	ТВ3	24VDC-
Ferm Valve	24VD C+	F7	TB4	VCC	FVRelay	MV	MVRe lay	Relay 7 - NC	Relay 7– Com	ТВ3	24VDC-
Cooler Valve	15A GFCI	TB2	F8	CV	Relay 4 – NC	Relay 4 – Com	TB1	15A GFCI- N			
Heater	24VD C+	F7	TB4	Relay 3– Com	Relay 3 – NC	Relay HTR	ТВ3	24VD C-			
	25A GFCI	HTR	SC R	Relay HTR	25A GFCI-N						
Bitter Hopper	24VD C+	F7	TB4	Relay 8 – Com	Relay 8 – NC	ВН	ТВ3	24VD C-			
Flavor Hopper	24VD C+	F7	TB4	Relay 9 – Com	Relay 9 – NC	FH	TB3	24VD C-			
Aroma Hopper	24VD C+	F7	TB4	Relay 10 – Com	Relay 10 – NC	AH	TB3	24VD C-			



Enclosure 1



Enclosure 3



Enclosure 2

